**Vision Performance Institute**
A research consortium supporting
“Quality Sustainable Vision”
5th Annual VPI Research Conference

**Wednesday Morning, June 1**

**The Visual System and 3D Displays**

- The vision system seems designed for virtual 3D consumption
  8:30
  Jim Sheedy, VPI
- Vergence and accommodative responses to viewing 3D
  8:50
  Shun-nan Yang, VPI
- Viewer symptoms viewing 3D displays – theater study results
  9:10
  Scott Cooper, VPI
- Visual fatigue and vergence-accommodation conflict in 3D
  9:40
  Joohwan Kim, UC Berkeley, School of Optometry

**Break**
10:00
**What is Eyestrain?**
10:30
Jim Sheedy, VPI

**Eyestrain and Accommodative Dysfunction**
10:50
Christopher Chase, Western University

**3D Displays – Vision and Public Health**

- Vision, 3D, and Eye Care Demand- A New Prevention Model?
  11:10
  Michael Duenas, American Optometric Association, Health Sciences and Policy
- Role of the 3D industry in providing for public health
  11:40
  Heidi Hoffman, 3D@Home

**Lunch**
12:00

**Wednesday afternoon**

**The 3D Eye Clinic**
1:30
James Kundart, VPI

**Specialized Clinical Testing of 3D Patients**
1:50
Hannu Laukkanen, VPI

**3D gaming rendering, perceived immersion, and symptoms**
2:10
Shun-nan Yang, VPI

**Technology and Delivering 3D to the Visual System**
3D The User Experience Story
Philip Corriveau – Principal Engineer, Interaction & Experience Research – Intel Corporation 2:30

Break 3:00

The art, technology, and business of 3D content production, distribution, and display
Phil Lelyveld, Consumer 3D Experience Lab 3:30

How to create bad 3D Films and TV
Chris Haws, Psychologist and Film Maker. Academic Advisor to 3D@Home Consortium 4:00

Certifying 3D Performance in the Home
Rick Dean, Sr. VP THX/Chairman 3D@Home Consortium 4:30

Session end 5:00

Thursday Morning, June 2

The limitations of stereoscopic 3D display technologies as a path to immersive reality
Aris Silzars, Northlight Displays 8:30

3D Displays Testing Methods
Adi Abileah, Chief Scientist, Technology Group, PLANAR SYSTEMS, Inc. 8:50

Children and Electronic Displays

The Young Visual System
Maureen Powers, Gemstone Foundation Research Institute 9:20

Break 9:50

Children and Reading
Shun-nan Yang, VPI 10:20

Dyslexia and Eye Movements
Yu-Chi Tai, VPI 10:50

Glasses, Optics, and Vision

3D Glasses
Steve Sechrist, Insight Media 11:20

3D Technology in Classrooms
Dan Lantowski, Texas Instruments 11:50

Lunch 12:10

Thursday afternoon

The use of shutter glasses in sports vision
Karl Citek, Pacific University 1:40
The use of shutter glasses in learning 2:00
   Eric Hussey, private practice of optometry

A new measure of vision performance 2:20
   Allan Hytowitz, Animated Vision Associates

Dyops, a new vision assessment -- Properties and precision 2:40
   Yu-Chi Tai, VPI

Break 3:00

Characterizing the Optics of Progressive Addition Lenses 3:30
   Thomas Raasch, Professor, Ohio State University

Measurement of higher-order aberrations in contact lenses 4:00
   James Butler, Pacific University

Vision and Display Characteristics

Designing legible fonts 4:20
   Kevin Larson, Researcher Advanced Reading Technologies, Microsoft

Ambient Light and Computer Displays – LCD vs e-ink 4:50
   Yu-Chi Tai, VPI

Session end 5:10

Friday Morning, June 3

Viewing displays from an angle 8:30
   Shun-nan Yang, VPI

Multiple Displays, Age and Posture 8:50
   Matt Camilleri, Assistant Research Engineer, UC Berkeley

Within-word text segmentation, lexical processing, and reading 9:10
   Yu-Chi Tai, VPI

Self-Selected Display Location: Effect of Duration and Number of Displays 9:30
   Matt Camilleri, Assistant Research Engineer, UC Berkeley

Break 9:50

Vision and Health

Assessing the Retina, Preferential Hyperacuity Perimeter 10:20
   Lorne Yudcovitch, Pacific University

Optical quantification of lipofuscin 10:45
   John Hayes, VPI

Meibomian Gland Meibomoscopy 11:05
   Patrick Caroline, Pacific University

Pacific Lipofuscin study 11:35
   John Hayes, VPI

End of Meeting 12:00